

MONTHLY PROGRESS REPORT
For month ending July 31st, 2017

CV-97-0206 (D.N.M)
Albuquerque v. Sparton Technology, Inc.

08/10/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
- The 3Q2017 Sampling plan was approved by SSP&A and the kits were ordered and picked up from H.E.A.L.
- B. Public Involvement Plan
-
- C. Deep Flow Zone System
-
- D. Assessment of Aquifer Restoration
-
- E. Offsite-Containment System
- The system ran 100.00% of the time and pumped 13,544,484 gallons (an average of 303.4 gpm). There were 0 outages.
 - Collected the monthly influent and effluent samples, and measured the water level in the infiltration gallery piezometer.
 - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-69659.
- F. Source Containment System
- The system ran 99.86% of the time and pumped 2,095,344 gallons (an average of 46.9 gpm). There were 2 outages:
 - o On 7/10 for 44 minutes due to a Tank Exchange, Filter Change, and Influent Line Flush.
 - o On 7/31 for 17 minutes due to a Tank Exchange and Filter Change.
 - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.
 - Collected the monthly influent and effluent samples from the treatment system.
 - Operated the chromium removal unit during the entire month. Continued to route 35 gpm of the pumped water through the unit and blend it with the remainder of the



pumped water to meet the New Mexico Water Quality Control Commission chromium standard of 0.050 mg/L in the effluent discharged into the ponds.

- Replaced the first tank of the chromium removal unit on July 10th and 31st.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on July 5th, 10th, and 31st.
- Prior to each Tank Exchange collected chromium samples of (a) the influent to the building; (b) the effluent from the second tank; and (c) the effluent from the air-stripper on tank exchange day.

G. Other

- Discussed the status of the RCRA Post Closure Care Permit renewal application with Messrs Amindyas and Salem of NMED.

Tasks Planned:

H. Groundwater Monitoring Plan

- The 3Q2017 Ground Water Measurement and Sampling event will begin on August 1st, 2017.

I. Public Involvement Plan

-

J. Deep Flow Zone System

-

K. Assessment of Aquifer Restoration

-

L. Offsite-Containment System

- The monthly influent and effluent samples will be collected, and the water level will be measured in the infiltration gallery piezometer.
- The required discharge report will be filed with the Office of the State Engineer.

M. Source Containment System

- The monthly influent and effluent samples will be collected.
- The required discharge report will be filed with the Office of the State Engineer; and
- Tank Exchange chromium sampling of (a) the influent; (b) the effluent from the second tank; and (c) the effluent from the air-stripper will continue.
- The first tank of the Chromium Removal unit will be replaced on August 21st.
- The pretreatment filter will be replaced on August 21st.
- Due to a reduced flow from the well head the influent lines will be cleaned and flushed of all manganese and iron bacterial growth as soon as possible.



N. Other

-

O. Problems Encountered or Anticipated:

-

By:

Dillon Cottingham, EI
Engineering Technician for Sparton

Charles Easterling, PE
Project Coordinator for Sparton.

Cc: Mr. Chuck Hendrickson (EPA: 214-665-7263)
Mr. Dave Cobrain (NMED: 505-476-6030)



Dillon Cottingham
 6100 Seagull Street NE
 Albuquerque, NM 87109

August 10th, 2017

Mr. Charles Palmer
 Office of State Engineer
 5550 San Antonio Dr. NE
 Albuquerque, New Mexico
 Dist1.meterreadings@state.nm.us

PE: Permit RG-69659, RG-73531T

Below is the meter report for the month of July 2017. A total of 13,544,484 gallons were treated by the air stripper at CW-1 and discharged via underground pipeline to the infiltration Gallery located in the Calabacillas Arroyo. A total of 2,095,344 gallons were treated by the air stripper at CW-2 and discharged into rapid infiltration pond 2 located northwest of the CW-2 Stripper building.

Date	CW-1		CW-2	
	Meter Reading	Discharge	Meter Reading	Discharge
01/03/2017	530,292,100		73,153,900	
02/01/2017	543,089,000	12,796,900	75,242,800	2,088,900
02/13/2017	547,741,600	4,652,600	75,964,600	721,800
02/13/2017	0	New Meter	0	New Meter
03/01/2017	6,724,145	11,376,745	1,090,874	1,812,674
04/03/2017	21,099,188	14,375,043	3,405,652	2,314,778
05/01/2017	33,119,830	12,020,642	5,217,323	1,811,671
06/01/2017	46,666,168	13,546,338	7,356,491	2,139,168
07/01/2017	58,697,913	12,031,745	9,320,616	1,964,125
08/01/2017	72,242,397	13,544,484	11,415,960	2,095,344
Total		89,691,897		14,226,660

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 7		AIR STRIPPERS							AQUA-MAG			MOTORS		PZ-G H ₂ O Level (ft)	Tech Initials	
YEAR: 17		System Status: On/Off	Stripper Alarms	Blower Pressure (H ₂ O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (sec/100gal)	Discharge Rate (min/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	Blower Motor Temperature °			Discharge Motor Temperature °
7/5	9:35	ON	NO	24.0	36.0	17.5	60638772	302.6	1/2 inch	169	17.4	2 2/3	115.2	140.4 ^R	22.97	C.C.
7/17	7:40	ON	NO	24.0	36.0	17.5	65,848,668	303.2	1/2 inch	262	18.8	10 1/3	112.1	135.8 ^R		C.C.
7/24	7:50	ON	NO	24.0	36.0	17.5	68,909,483	303.4	1/2 inch	132	18.57	10 1/3	110.8	136.8 ^R		C.C.
7/31	10:35	ON	NO	24.0	36.0	17.5	72,018,008	303.1	1/2 inch	305	20.71	9 3/4	112.5	143.6 ^R		C.C.
8/1	8:25	ON	NO	25.0	36.0	18.0	72,424,446	303.2	1/2 inch	287	19.0	9 3/4	112.2	140.3 ^R	23.0	C.C.

Discharge = 6000 / (Sec/100gal) = ppm
 (Gallons between readings * 24 Hours) / (Hours between readings) = Chemical Consumption = 20 gallons/day
 (Gallons needed to fill tank * 7.6 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Aqua Mag Top Off			
Date	Time	Gallons of A-M	Inches of A-M
7-7-17	1:15	320	14.15
7-24-17	8:00	318	14.06

1 inch = 1.71875 gallons of Aqua Mag

Collected Samples		
Type	Date	Time
Monthly Metals	7/31	10:45

ALARMS	
A-1	High Sump
A-2	Air stripper High Sump
A-3	Gallery High
A-4	Pump Off
A-5	Blower Pressure Low

23 23

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: July		AIR STRIPPERS								INFILTRATION			AQUA-MAG			MOTORS		Tech Initials
Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (H ₂ O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Flow Rate (gpm)	Discharge Rate (min/in)	Chromium Tank Flow Rate (gpm)	Pond #2 Accumulation	Pond #3 Accumulation	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F	
6/26	7:15	ON	NO	24.5	24.0	22.0	8992897	50.6	1/2 inch	35.28	8893353	175	157	9.85	1 2/3	92.9	111.9 ^R	CC
											9505698	175	354	9.6	1 2/3	96.7	110.5 ^R	CC
7/5	7:30	ON	NO	24.5	21.0	19.0	9622438	48.75	3/4 inch	35.04	9505698	175	354	9.6	1 2/3	96.7	110.5 ^R	CC
7/10	7:30	ON	NO	24.5	24.5	22.5	9957894	48.75	3/4 inch	35.28	9835262	175	311	8.6	1 1/3	94.9	119.4 ^R	CC
7/10	9:20	ON	NO	26.5	20.0	18.0	9960704	48.75	3/4 inch	35.04	9838286	175	311	8.6	1 1/3	93.3	94.1 ^R	CC
7/17	8:05	ON	NO	24.5	20.0	18.0	10435780	46.87	3/4 inch	35.04	1030146	175	247	9.14	3 1/3	96.7	117.9 ^R	CC
7/24	7:15	ON	NO	24.5	20.0	16.0	10903929	46.87	3/4 inch	35.16	10761689	175	174	10.42	3 1/3	93.7	112.8 ^R	CC
7/27	8:05	ON	NO	24.5	21.0	20.0	1112768	46.87	3/4 inch	35.16	10959597	175	142	10.66	3	96.7	112.6 ^R	CC
7/31	7:37	ON	NO	24.5	38.0	36.0	11371411	43.12	3/4 inch	35.04	11210495	175	405	11.25	3	94.4	108.3 ^R	CC
7/31	8:15	ON	NO	25.0	20.5	18.0	11374639	46.875	3/4 inch	35.04	1123853	175	405	11.25	3	96.8	103.4 ^R	CC
8/1	12:00	ON	NO	24.5	21.0	18.0	11449392	46.903	1/2 inch	35.04	11286361	175	391	11.0	3	99.4	113.8 ^R	CC

Discharge = Accumulation Difference * 60 / 32 = gpm

(Gallons between readings * 24 Hours) / (Hours between readings) = Chemical Consumption = 10 gallons/day

(Gallons needed to fill tank * 4.1 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Chromium Tank Exchange		
Date	Time	Left/Right
7-10-17	9:15	R
7-31-17	8:55	L

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
7-27-17	7:30	308 / 7.3

ALARMS	
A-1	Bldg/Well Pit/Aqua Mag Sump
A-2	Air stripper Sump
A-3	Pond #6
A-4	Pump Off
A-5	Blower Pressure Low

Influent Filter	
Date	Time
7-5-17	8:00
7-10-17	8:40
7-31-17	8:30

Collected Samples		
Type	Date	Time
Monthly Metals	7/3	8:50
Chromium Exchange	7/10	9:00
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

Monthly 7/31 8:45

